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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/721,678	11/25/2003	John H. Crowe	010023-000170	5959
20350	20350 7590 04/07/2006		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			CHEN, SHIN LIN	
EIGHTH FLO	RCADERO CENTER OR		ART UNIT	PAPER NUMBER
SAN FRANCISCO, CA 94111-3834			1632	

DATE MAILED: 04/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)			
Office Action Summary		10/721,678	CROWE ET AL.			
		Examiner	Art Unit			
		Shin-Lin Chen	1632			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)□	Responsive to communication(s) filed on					
2a)□						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٥,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims	2. pano gaayio, 1000 0.0. 11, 1	0.0.210.			
		n				
	Claim(s) <u>1-33</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.5) ☐ Claim(s) is/are allowed.					
·	5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected.					
	Claim(s) is/are objected to.					
·	Claim(s) <u>1-33</u> are subject to restriction and/or	r election requirement				
·		r election requirement.				
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
_	e of References Cited (PTO-892)	4) Interview Summary	v (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	5) Notice of Informal I 6) Other:	Patent Application (PTO-152)			

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- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-16, drawn to a process for loading a biological sample comprising loading by fluid phase endocytosis a biological sample with a solute, such as trehalose, and DMSO to produce internally loaded biological sample, or further fusing a first matter comprising the solute and DMSO with a second matter to produce a fused matter, and the biological sample produced by said process, classifiable in classes 435 and 536, subclasses 325 and 1.11, respectively.
 - II. Claims 17-23, drawn to a process for preparing a dehydrated biological sample by loading a biological sample with a solute and DMSO and drying the loaded biological sample, classified in classes 435 and 536, subclasses 325 and 1.11, respectively.
 - III. Claims 24-27, 31 and 32, drawn to a process for increasing the survival of a biological sample by loading the biological sample with a carbohydrate and DMSO and drying the loaded sample while maintaining a water content of at least about 0.01 g water/g dried weight, classified in class 435, subclass 374.
 - IV. Claims 28-30 and 33, drawn to a process for improving intracellular distribution of a solute in a biological sample by loading the biological sample with a carbohydrate and DMSO to improve intracellular distribution, and a solution for increasing the distribution of a solute in a biological sample, classified in class 435, subclass 325.

The inventions are distinct, each from the other because of the following reasons:

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2. Groups I-IV are distinct from each other because they are drawn to materially distinct methods which differ at least in objectives, method steps, reagents and/or dosages used, schedules used, response variables, and criteria for success. They have different designs and modes of operation. A process for loading a biological sample by fusing two matters, a process for preparing a dehydrated biological sample, a process for increasing the survival of a biological sample, and a process for improving intracellular distribution of a solute in a biological sample are different methods with different objectives and different modes of operation. Thus, groups I-IV are patentably distinct from each other and there is serious burden to search all groups I-IV.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shin-Lin Chen whose telephone number is (571) 272-0726. The examiner can normally be reached on Monday to Friday from 9:30 am to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on (571) 272-0735. The fax phone number for this group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Shin-Lin Chen, Ph.D.

SHIN-LIN CHEN
PRIMARY EXAMINER

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